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(54) Title: IMMUNOMODULATORY FORMULATIONS AND METHODS FOR USE THEREOF

(57) Abstract: The invention provides new compositions and methods for immunomodulation of individuals. Immunomodulation is accomplished by administration of immunomodulatory polynucleotide/microcarrier (IMP/MC) complexes. The IMP/MC complexes may be covalently or non-covalently bound, and feature a polynucleotide comprising at least one immunostimulatory sequence bound to a nonbiodegradable microcarrier or nanocarrier.

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/US 01/07843

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 01 68144 A (DYNAVAX TECHNOLOGIES CORP ;NEST GARY VAN (US); TUCK STEPHEN (US)) 20 September 2001 (2001-09-20) abstract; claims	1-66
E	WO 01 68077 A (DYNAVAX TECHNOLOGIES CORP ;NEST GARY VAN (US)) 20 September 2001 (2001-09-20) page 26, line 11 -page 29, line 10; claims	1-66
E	WO 01 68116 A (DYNAVAX TECHNOLOGIES CORP ;NEST GARY VAN (US)) 20 September 2001 (2001-09-20) page 21, line 11 -page 22, line 33; claims	1-66
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*Y\* document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*8\* document member of the same patent family

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>ROMAN, MARK ET AL: "Immunostimulatory DNA sequences function as T helper-1-promoting adjuvant"</p> <p>NAT. MED. (N. Y.) (1997), 3(8), 849-854 , XP002188113</p> <p>cited in the application</p> <p>page 850, column 2, paragraph 2</p> <p>abstract</p>	1-66
P,Y	<p>WO 00 16804 A (DYNAVAX TECHNOLOGIES CORP ;DINA DINO (US))</p> <p>30 March 2000 (2000-03-30)</p> <p>page 23, line 1 - line 7; claims</p> <p>page 26, line 12 - line 31</p>	1-66
E	<p>WO 01 68103 A (DYNAVAX TECHNOLOGIES CORP ;NEST GARY VAN (US))</p> <p>20 September 2001 (2001-09-20)</p> <p>page 25, line 8 -page 27, line 31; claims</p>	1-66
E	<p>WO 01 76642 A (TAKABAYASHI KENJI ;NGUYEN MINH DUC (US); RAZ EYAL (US); UNIV CALIF)</p> <p>18 October 2001 (2001-10-18)</p> <p>claims 1,11,13</p>	1-71

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0168144	A	20-09-2001	WO 0168144 A2	20-09-2001
WO 0168077	A	20-09-2001	WO 0168077 A2	20-09-2001
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